



Environmental
Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

June 29, 2012

Village of Lynchburg Mayor and Council
P.O. Box 402
Lynchburg, OH 45142

**RE: Village of Lynchburg WWTW/Reconnaissance Inspection Report
NPDES Permit No. OH0022667/OEPA PERMIT NO. 1PD00105*GD**

Ladies and Gentlemen:

On June 21, 2012, I conducted an NPDES Reconnaissance Inspection at the village of Lynchburg wastewater treatment works (WWTW). Jeremiah Norris (Operator), representing the facility, was present during the inspection. Mark Suiter, the Operator of Record for the WWTW, was out of town. The purpose of the inspection was to evaluate the Village's compliance with the NPDES (discharge) permit.

Items Noted During the Inspection:

- Construction on the WWTW improvement for village of Lynchburg was completed in September of 2010. Ohio EPA approved the design for the WWTW in 2009, which consisted of a treatment capacity expansion. The WWTW now has an average daily design flow of 0.5 MGD and a peak hourly flow of 1.62 MGD. The following salient improvements have been made to the WWTW:
 - The old EQ and one of the existing aeration tanks were converted to a storm retention basin (280,000 gallons total)
 - One of the existing aeration tanks was converted to sludge storage tank (140,000 gallons)
 - Two new oxidation ditch units (24 hour detention) with integral, secondary clarifiers
 - UV disinfection system (1.62 MGD peak capacity)
- A review of the discharge monitoring reports (DMRs) from July of 2011 through May 2012 revealed an average daily flow of 0.152 MGD and 12 days when influent flows exceeded average daily design flow. During the period of review, the maximum daily flow reported was 0.95 MGD.

During extreme high flow events, when the two influent pumps are unable to pump the wet well down, a diesel pump will convey the remaining wastewater (125 gpm) to the storm retention basin. Mr. Norris noted that the storm retention basin was needed only a handful of days and there have been no plant bypasses since construction of the WWTW improvements were completed. Prior to the upgrade, the Village would routinely bypass secondary treatment once the old equalization basin filled.

- Since 2010, the Village has completed storm sewer collection system work in an effort to convey rain water to the natural drainage ways more effectively, which means less extraneous water in the sanitary sewers. The Village has installed 1900 feet of 12" storm drains, 18 new catch basins, and upgraded 7 catch basins to a larger size.
- The Village utilizes a geotextile woven bag for sludge dewatering. The bag is stored on the old sludge drying beds, where the filtrate is returned to the influent pump station. At this time, the Village utilizes around 1 bag/year. In 2011, approximately 10 dry tons were removed and hauled to a mixed solid waste landfill.
- A review of the Village's discharge monitoring reports from July 2011 through May 2012, revealed two NPDES effluent limit violations:

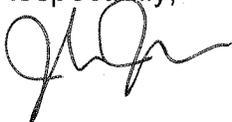
Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value
July 2011	001	Dissolved Oxygen	1D Conc	6.0	5.8
July 2011	001	Dissolved Oxygen	1D Conc	6.0	5.2
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.8
July 2011	001	Dissolved Oxygen	1D Conc	6.0	5.5
July 2011	001	Dissolved Oxygen	1D Conc	6.0	5.2
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.3
July 2011	001	Dissolved Oxygen	1D Conc	6.0	5.
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.9
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.5
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.2
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.7
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.7
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.4
July 2011	001	Dissolved Oxygen	1D Conc	6.0	4.6
August 2011	001	Dissolved Oxygen	1D Conc	6.0	4.9
August 2011	001	Dissolved Oxygen	1D Conc	6.0	4.9
August 2011	001	Dissolved Oxygen	1D Conc	6.0	4.4
August 2011	001	Dissolved Oxygen	1D Conc	6.0	4.7
August 2011	001	Dissolved Oxygen	1D Conc	6.0	5.3

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value
August 2011	001	Dissolved Oxygen	1D Conc	6.0	5.7
August 2011	001	Dissolved Oxygen	1D Conc	6.0	5.5
August 2011	001	Dissolved Oxygen	1D Conc	6.0	4.8
August 2011	001	Dissolved Oxygen	1D Conc	6.0	5.5
September 2011	001	Fecal Coliform	7D Conc	2000	10000.

- In August, the Village began to monitor dissolved oxygen at the discharge pipe instead of just after UV disinfection. This took into account the added aeration during travel time in the effluent line. Since this procedural change, there have been no further dissolved oxygen violations. The Village was also investigating adding an additional blower and diffuser(s) where the clarifier effluent enters the UV disinfection channel. **Ohio EPA recommends the Village pursue additional methods for post-aeration since the Village DMR reports routinely show dissolved oxygen levels close the effluent limit of 6.0 mg/l. Post-aeration would provide operations staff an expanded margin of error, especially during the hot summer months when dissolved oxygen is more readily depleted.**
- The WWTW discharge was free of any observable solids and there were no solids attributed to the WWTW in the receiving stream.

Thank you and your staff for the time extended during the inspection process. If you have any questions, please feel free to contact me by phone at (937) 285-6029 or by email at joshua.jackson@epa.state.oh.us.

Respectfully,



Joshua Jackson
Environmental Specialist II
Division of Surface Water

JJ/tf

Enclosures

cc: Mark Suiter, Village of Lynchburg



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Protection Agency**

John R. Kasich, Governor
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NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PB00105*GD	OH0022667	6/21/2012	R	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Lynchburg WWTW 303 Wise Road Clark Township, Clinton County	9:30 a.m.	9/1/2008
	Exit Time	Permit Expiration Date
	11:00 a.m.	8/31/2013
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mark Suiter, Operator of Record Jeremiah Norris, Operator	937-364-2122 (WWTW) 937-205-0293 (Mark Suiter cell phone)	
Name, Address and Title of Responsible Official	Phone Number	
Village of Lynchburg Mayor & Council Attn: Ms. Nicole Oberrecht P.O. Box 402 Lynchburg, OH 45142	937-364-2241	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	M	Effluent/Receiving Waters	N	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)

See cover letter.

Inspector	Reviewer
 Joshua Jackson Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
6-29-2012 Date	6/29/12 Date